

CLAIMS

What is claimed is:

- 1 1. A blender blade for cutting through a working medium provided in a
2 blender pitcher, comprising:
3 a body portion having an upper surface and a lower surface, said
4 body portion including an aperture effectively defining an axis of rotation
5 for the blender blade,
6 a first blade wing extending from said body portion and having an
7 upper surface and a lower surface,
8 a second blade wing extending from said body portion and having
9 an upper surface and a lower surface,
10 a leading edge provided on said first blade wing and a leading edge
11 provided on said second blade wing, said leading edges being adapted to
12 cut through the working medium during rotation of said blender blade, and
13 at least one wing flap extending outwardly, selectively from said first
14 blade wing and said second blade wing.
- 1 2. A blender blade according to claim 1, wherein one wing flap is provided
2 on said first blade wing, and another wing flap is provided on said second
3 blade wing.
- 1 3. A blender blade according to claim 2, wherein said wing flap and said
2 leading edge provided on said first blade wing are oppositely oriented,
3 and wherein said wing flap and said leading edge provided on said
4 second blade wing are oppositely oriented.
- 1 4. A blender blade according to claim 3, wherein said wing flap provided on
2 said first blade wing extends outwardly from the trailing edge of said first
3 blade wing, and wherein said wing flap provided on said second blade
4 wing extends outwardly from the trailing edge of said second blade wing.
- 1 5. A blender blade according to claim 3, wherein said wing flap provided on
2 said first blade wing is angled relative to said first blade wing along a first

3 bend line, and wherein said wing flap on said second blade wing is
4 angled relative to said second blade wing along a second bend line.

1 6. A blender blade according to claim 3, wherein said wing flaps are
2 selectively oriented upwardly and downwardly to control the flow of the
3 working medium relative to said axis of rotation.

1 7. A blender blade according to claim 6, wherein said wing flaps include
2 upper surfaces and lower surfaces, said upper surfaces of said wing flaps
3 impinging the working medium when said wing flaps are oriented
4 upwardly and said lower surfaces of said wing flaps impinging the working
5 medium when said wing flaps are oriented downwardly.

1 8. A blender blade according to claim 7, wherein a first wing tip extends
2 outwardly at an obtuse angle from said first blade wing, a second wing tip
3 extends outwardly at an obtuse angle from said second blade wing.

1 9. A blender blade according to claim 7, wherein said first blade wing and
2 said second blade wing are asymmetrically oriented with respect to said
3 body portion, said upper surface of said second blade wing being
4 obtusely oriented relative to said body portion.

1 10. A blender blade according to claim 9, wherein said body portion and said
2 first blade wing are uniformly connected, said upper surface of said body
3 portion smoothly transitioning into said upper surface of said first blade
4 wing.

1 11. A blender blade according to claim 6, wherein said wing flaps are hook-
2 shaped and include first surfaces and second surfaces, said first surface
3 impinging the working medium when said wing flaps are oriented
4 upwardly and said second surface of said wing flaps impinging the
5 working medium when said wing flaps are oriented downwardly.

- 1 12. A blender blade according to claim 11, wherein a first wing tip extends
2 outwardly at an obtuse angle from said first blade wing, and wherein a
3 second wing tip extends outwardly at an obtuse angle from said second
4 blade wing.
- 1 13. A blender blade according to claim 3, wherein said wing flap provided on
2 said first blade wing and said wing flap provided on said second blade
3 wing can be selectively canted inwardly and outwardly relative to said
4 leading edges to control the radial flow of the working medium relative to
5 the axis of rotation.
- 1 14. A blender blade according to claim 13, wherein said first blade wing and
2 said second blade wing gradually narrow as said first blade wing and said
3 second blade wing extend outwardly from said body portion, said wing
4 flap provided on said first blade wing and said wing flap provided on said
5 second blade wing being canted inwardly accordingly.
- 1 15. A blender blade according to claim 13, wherein said first blade wing and
2 said second blade wing gradually broaden as said first blade wing and
3 said second blade wing extend outwardly for said body portion, said wing
4 flap provided on said first blade wing and said wing flap provided on said
5 second blade wing being canted outwardly accordingly.